2nd & final Bill

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work :- Improvements of re-asphalting dasarahalli main road & other roads, S Ramaiah, Ganesha Saumil, Kempegowda Nagara and maheshwari nagara roads construction drain & concrete main roads & Cross roads of vidyanagara dasarahalli ward no :- 15 & 39 (6 works) package No: D2 2017-18 (05)						
	Name of Agency :- M.S. Venkatesh						
	Est cost :- Rs. 200.00 lakhs						
	Job code No :- 015-18-000007, 015-18-000008, 015-18-000009, 015-18-0000						
	Work order No :- EE/DD/WO/305/18-19 dated : 02.02.2019						
	Item No :- 2 - Removing B.S. Slab of drain & stacking. (page No 25., l.no. S. 32 of KPWD S.R 2016-17)						
						3150.00 Sqm	
					@TR	73.59	= 231808.50

AE

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63808

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:-3 - Earthwork excavation by manual mean in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per Specifications. HORTH / Chapter 3 (P-141/19.1)					1587.15 Cum @TR 97.32 = 154461.44	
	Item NO:-20 - Refixing B.S. Slab of drain & pointing in C.M (1:3) (page No. 25., I NO.S.33 of KPWD S.R 2016-17)					3150.00 Cum @TR 90.20 = 284130.00	

AE

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:-21 providing precast slab of 100mm thick including cost of all materials, labour, wiring, transportation, loading, unloading. etc.., complete as per the direction of engineer in charge date rate					702.00 Sq.m @TR 2053.53 = 1441578.06	
	Item NO:-12 KSRB 500-2:- Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all material, labour, TOM of machineries complete as per Specifications, Specification No. KRBS 500-2.4.2 MORTH Specification No.502-4.2 & 503-3.1 (page NO161.1. NO.21.2 of KPWD S.R 2016-17)					18807.00 Sq.m @TR 3.56 = 66952.92	

AE

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63809

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:-8 - providing, laying, Spreading & compacting graded stones aggregate to wetmix macadam Specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mix-method of tipper to Site, laying in uniform layers with paver in Subbase/base course on the well prepared surface and compacting with vibratory rollers to achive the desired density complete as per MORTH Specification NO. 406 etc with all lead & lifts as per directions of the Engineer-in-charge (Item NO:20.18, page NO:157 of KPWD S.R 2016-17)					483.05 cum @TR 1979.72 = 956303.75	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item NO:-13 - KSRRB 3000 filling pot-hole and patch repair with bituminous concrete, 40mm KSRRB M3000-5. Removal of all failed material, trimming of completed excavation to provide firm vertical faces, cleaning of surface, applying tack coat on the sides and base of excavation at 2.5kg/10sqm as per clause 500.3, back filling the pot hole with hot bituminous material as per clause 500.4, compacting, trimming and finishing the surface to form a smooth continous surface, all as per clause 3004.2. complete as per Specifications MORTH Specification NO. 3004.2					1995.20 Sqm @TR 338.26 = 674896.35	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63810

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Item No:-14 KSRRB 500-7. providing & applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surface at 2.5 kg per 10 sqm heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specification, MORTH chapter 5 (page No. 160, Item No 21.7 of KPWD S.R 2016-17)				18807.00 Sqm @ TR 13.06 = 245619.42	
	Item No:-15 KSRRB 500-11 providing & laying bituminous macadam on prepared surface with crushed coarse aggregate as per design mix formula for base / binding course including loading of aggregate with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed materials in tipper to paver					

AE

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	laying mixed materials with paver finisher to the required level & grade, rolling by power rollers to achieve the desired density. but excluding cost of primer / tack coat including lead, lift & cost of all materials, labour, HOM of machineries complete as per Specifications using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm) with 3.3% VG-30 bitumen					261.90 cum @TR 6210.95 = 1626647.81	
	Item No:-16 providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder & filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level & alignment, rolling with smooth wheeled, vibratory & tandem rollers to achieve the desired compaction as per morth specification clause No. 500.4 complete in all respects complete as per Specification. using 40/60 TPH capacity						

Rec'd AE

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63811

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	H.M.P. with mechanical paver Gr-II (30mm to 45mm) with V.G-30 bitumen MORTH Specification No-509 (Sl No. 21.22.6, page 164)					750.84 Cum @ TR 15283.48 = 11475448.12	
	Item No:- 17 Add plastic to bitumin now content 8% of bitumen					509.15 kg @ TR 30.23 = 15391.64	
	Item No:- 18 Road marking with Hot applied thermoplastic compound with reflectorising glass beads on bituminous surface providing & laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per Sqm area, thickness of						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2.5mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks & holes complete as per specifications. MORTH Specification No. 803 page no- 181., It-24.15 of ICPWD S.R 2016-17					1134.76 Sqm @TR 607.68 = 689570.96	
	Item No 6:- providing and fixing pre cast solid concrete kerb stones made out of CC 1:2:4 with top & bottom width 114 & 165 mm respectively, 400 mm high & 450 mm in length finished with CM 1:3 plastering & finishing curing, including form work, curing, including cost of all materials, labours, hire charges of machinery, loading, unloading, lead & lift, transportation etc., complete AE					5955.00 Nos @TR 432.03 = 2572738.65	

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63812

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	Item No:-7 KSRRB 800-1. painting two coats after filling the surface with Synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per Specifications. MORTH Chapter 8 :-				938.00 Sqm. @ TR 71.21 = 66794.98	
	Item No:-19 KSRRB M800-35. providing & fixing of road stud 100x100 mm, die-Nos cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per					

AE

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	BS: 873 part 4: 1973 Complete as per specifications						
						3045.00 Nos	
					@TR	402.35 = 1225155.75	
	Item No 22:- Lead charges for conveying the Excavated earth Including loading & unloading upto 10kms as per directions						
						1587.15 Cum.	
					@TR	118.69 = 188378.83	
					Grand Total	= 2,19,15,877/-	

AE

20.12.2019

Audited and admitted for Rs. 2191587/-

Passed by Cheque for Rs. 2080624/-

(-)

Serial No. -

by adjustment Rs. 110963/-

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency .....

Date of commencement of work Exe. Engineer

Accounts Superintendent .....

Date .....

M. A. R. 57 (Rule 116) No. D

Measurement Book

63813

S.B.M.P. Dasarahalli Division

1	2 Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	7	8
	Certified that the work done satisfactorily Certified that the debries removed from work Spot AE 30/3/2019 ದಾ.ಪಿ.ಕಂ.ವಿಭಾಗ/ಶ್ರೇ					ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು	

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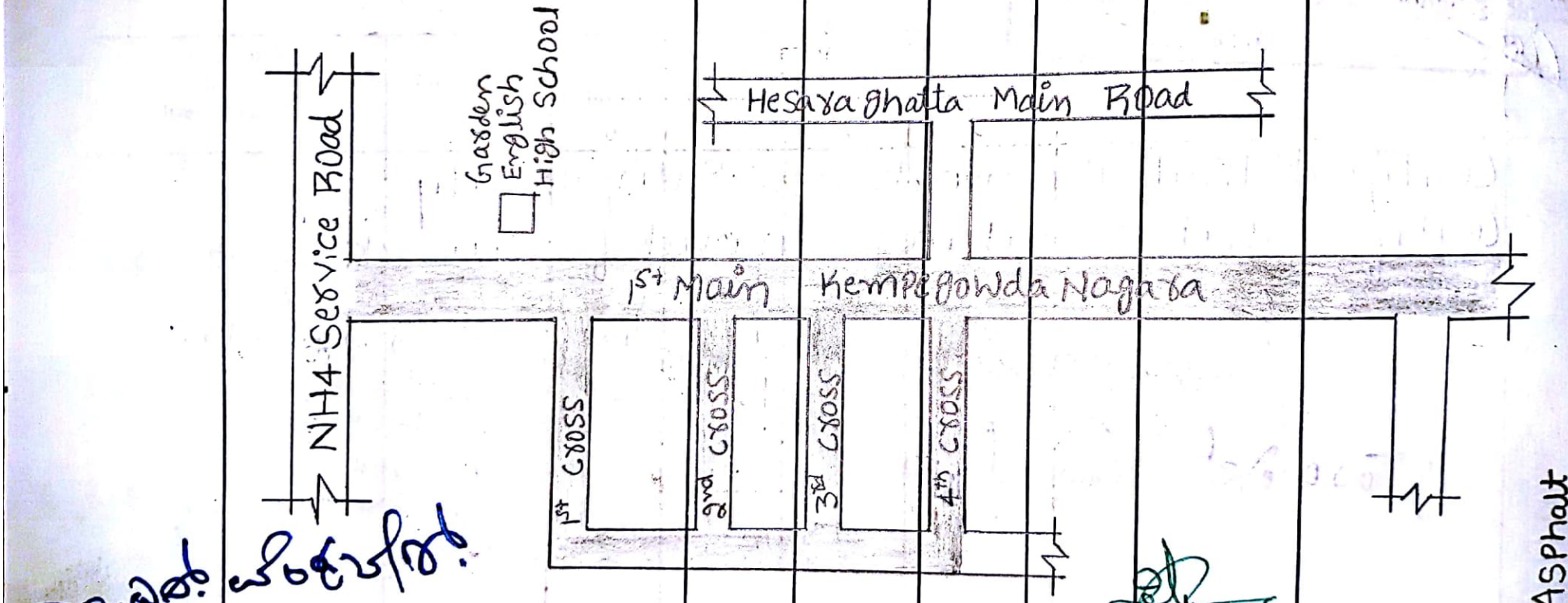
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಶವಂತಪುರ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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M. A. R. 57 (Rule 116) No. D

Measurement Book

63814

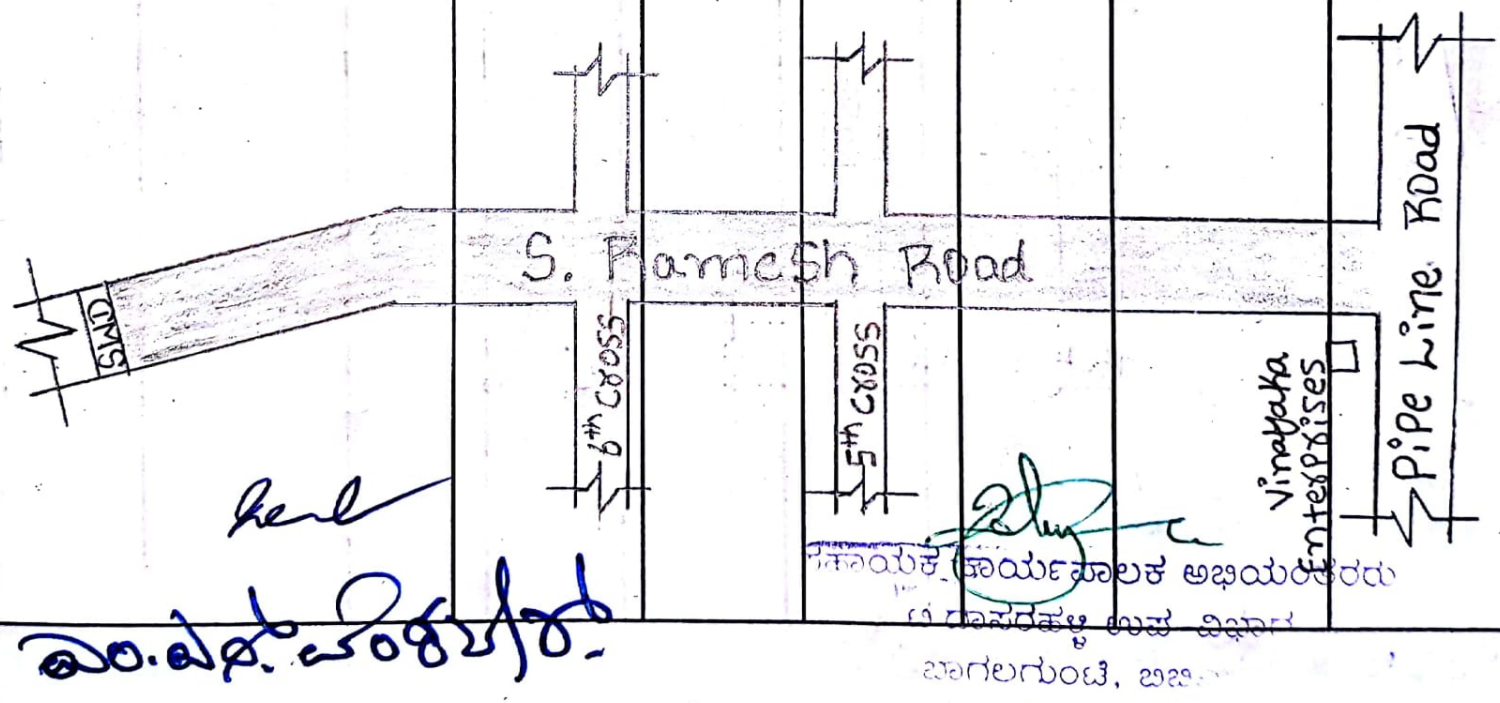
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಗಾಂಧಿನಗರ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿ

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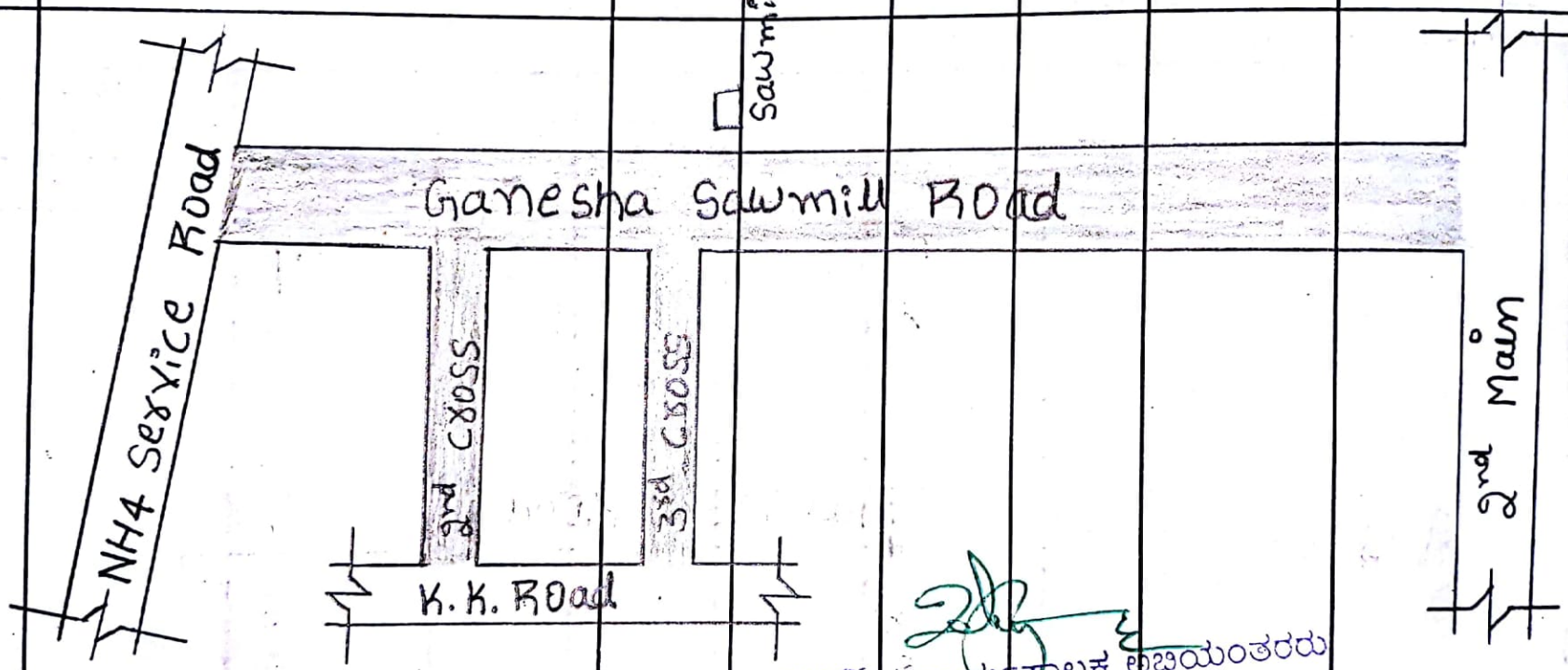
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

ಎಂ.ಎಸ್.ಎಂ.ಬಿ.ಸಿ.

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M. A. R. 57 (Rule 116) **No. D**

Measurement Book

63815

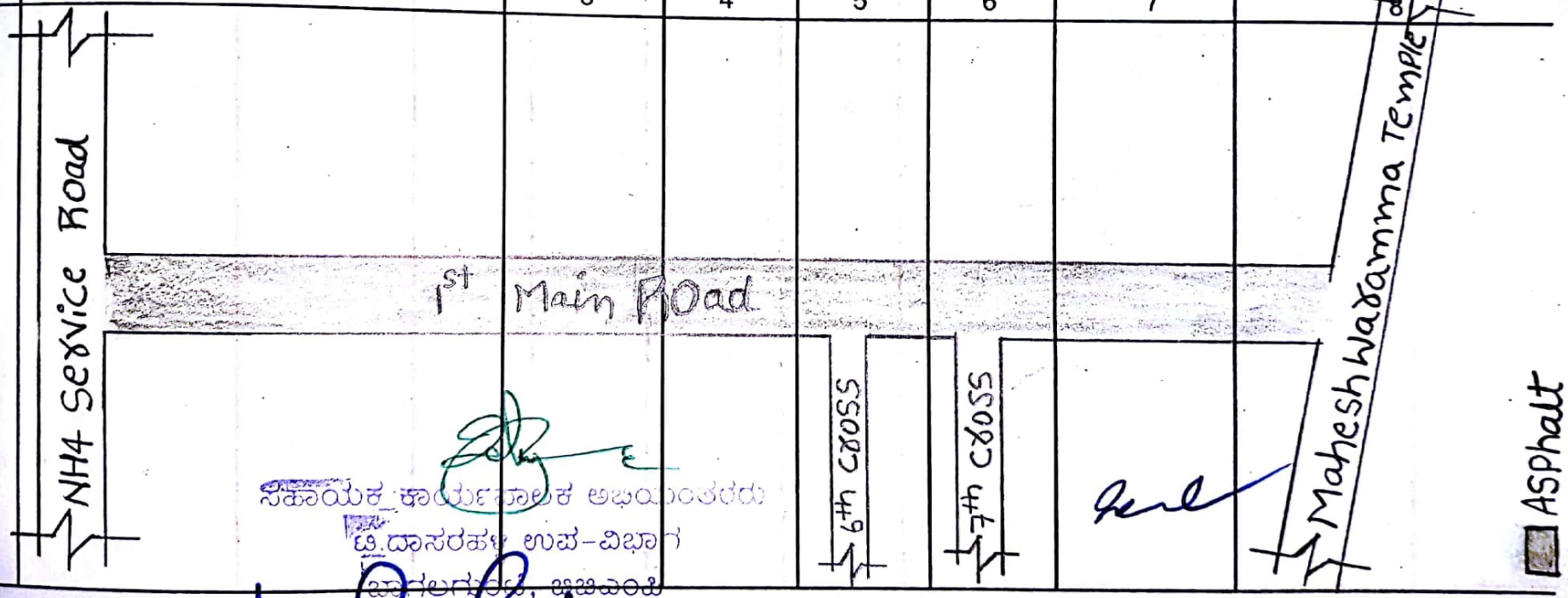
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು

ಪಿ.ಎಸ್. ಪಂಚಾಕ್ಷರಿ.

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